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## What is claimed is:

1. An apparatus for concentrating a vegetable-fruit product, said apparatus comprising:

a concentration unit having an inlet, an outlet and a plurality of tubular membrane modules connected in series;

a single-axis eccentric screw pump connected to said inlet of said concentration unit for supplying the vegetable-fruit product to said concentration unit; and

another single-axis eccentric screw pump connected to said outlet of said concentration unit for discharging the vegetable-fruit product from said tubular membrane modules, said apparatus serving to cause the vegetable-fruit product to be concentrated by reverse osmosis by causing the vegetable-fruit product to flow down under a pressured condition to said concentration unit.

- 2. The apparatus of claim 1 structured for causing the vegetable-fruit product to flow into said concentration in a single-pass process.
- 3. The apparatus of claim 1 wherein the vegetable-fruit product includes at least one selected from the group consisting of seeds, epidermis and sarcocarp.
- 4. The apparatus of claim 2 wherein the vegetable-fruit product includes at least one selected from the group consisting of seeds, epidermis and sarcocarp.
- 5. The apparatus of claim 3 wherein said vegetable-fruit product is a processed tomato product.
  - 6. The apparatus of claim 4 wherein said vegetable-fruit product is a processed tomato product.
- 7. A method of concentrating a vegetable-fruit product by reverse osmosis, said method comprising the steps of:

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causing the vegetable-fruit product to flow down under a pressured condition to a concentration unit which comprises an inlet, an outlet and a plurality of tubular membrane modules connected in series;

supplying the vegetable-fruit product to said tubular membrane modules through a single-axis eccentric screw pump which is attached to said inlet; and

discharging a concentrated product from said tubular membrane modules through another single-axis eccentric screw pump which is attached to said outlet.

- 8. The method of claim 7 wherein said vegetable-fruit product is caused to flow into said concentration unit in a single-pass process.
  - 9. The method of claim 7 wherein the vegetable-fruit product includes at least one selected from the group consisting of seeds, epidermis and sarcocarp as a solid component.
  - 10. The method of claim 8 wherein the vegetable-fruit product includes at least one selected from the group consisting of seeds, epidermis and sarcocarp as a solid component.
  - 11. The method of claim 9 wherein the vegetable-fruit product contains said solid component in an amount of 30-60 weight %.
  - 12. The method of claim 10 wherein the vegetable-fruit product contains said solid component in an amount of 30-60 weight %.
  - 13. The method of claim 11 wherein said reverse osmosis is carried out with pressure of 3-5MPa at said inlet, pressure of 1-3MPa at said outlet and pressure difference greater than 1.5MPa between said inlet and said outlet.

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- 14. The method of claim 12 wherein said reverse osmosis is carried out with pressure of 3-5MPa at said inlet, pressure of 1-3MPa at said outlet and pressure difference greater than 1.5MPa between said inlet and said outlet.
- 5 15. The method of claim 13 wherein said vegetable-fruit product is a processed tomato product.
  - 16. The method of claim 14 wherein said vegetable-fruit product is a processed tomato product.

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